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Finite Element Analysis of Mechanical Behaviors and Properties of Engineering Materials and Structures

Guest Editors:

Prof. Dr. Arkadiusz Żak

Faculty of Electrical and Control Engineering, Gdansk University of Technology, Narutowicza 11/12, 80-233 Gdansk, Poland

Prof. Jacob Bortman

Department of Mechanical Engineering, Ben-Gurion University of the Negev, Beer-Sheva, Israel

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Message from the Guest Editors

The finite element method, as a computational tool, has a firm and unquestionable position in all aspects of modern engineering. Its omnipresent use at nearly every stage of engineering design, as well as in research and scientific activities, confirms its strength and power. As a research tool, the finite element method is very often used in order to characterize mechanical properties of materials or structures during the pre-design stage. Subsequently, this greatly helps to lower their manufacturing costs, increases cost effectiveness and additionally offers straightforward design optimization. As a scientific tool, the finite element method also provides great insight into various processes or phenomena that are difficult to monitor in reality, or processes or phenomena that are not thoroughly examined or fully understood.

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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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